

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 (GOVERNOR RITCHIE HIGHWAY) AND EARLEIGH HEIGHTS ROAD/MAGOTHY BRIDGE ROAD) IN ANNE ARUNDEL COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE INSTALLATION OF 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS FOR THE SOUTH LEG OF MD 2 AND THE WEST LEG OF EARLEIGH HEIGHTS ROAD. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH THE MD 2 APPROACHES OPERATING CONCURRENTLY AND THE EARLEIGH HEIGHTS ROAD/MAGOTHY BRIDGE ROAD APPROACHES OPERATING SPLIT PHASED. PROTECTED LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 2. NEW ALTERNATED AUDIBLE PUSHBUTTON ACTUATED PEDESTRIAN PHASES WILL BE PROVIDED ACROSS THE SOUTH LEG OF MD 2 AND THE WEST LEG OF EARLEIGH HEIGHTS ROAD.

APS MESSAGE FOR CROSSING AT THE SOUTHEAST CORNER OF MD 2 (GOVERNOR RITCHIE HIGHWAY):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOVERNOR RITCHIE AT MAGOTHY BRIDGE, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING AT THE SOUTHWEST CORNER OF MD 2 (GOVERNOR RITCHIE HIGHWAY):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOVERNOR RITCHIE AT EARLEIGH HEIGHTS, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING EARLEIGH HEIGHTS ROAD:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS EARLEIGH HEIGHTS AT GOVERNOR RITCHIE, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED. A 2-WIRE CENTRAL CONTROL UNIT WILL BE ADDED TO THE CABINET.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9570	37	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
			- 4 EACH R10-3(1) (9"x15")
			- 4 EACH W11-2 (30"x30")
			- 2 EACH W16-7p(R) (24"x12")
			- 2 EACH W16-7p(L) (24"x12")

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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SUPERVISOR - SIGNAL SHOP
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ASSISTANT DISTRICT ENGINEER - UTILITY
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MR. RICHARD L. DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
2002	2	CY	TEST PIT EXCAVATION
5005	600	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8001	4	EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8002	3	EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE
8003	4	EA	FURNISH AND INSTALL 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8007	200	LF	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8008	100	LF	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8010	65	LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8011	1	EA	ADJUST EXISTING HANDHOLE
8012	250	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8014	2	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8015	37	SF	INSTALL GROUND MOUNTED SIGN
8018	2	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8020	500	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8021	500	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

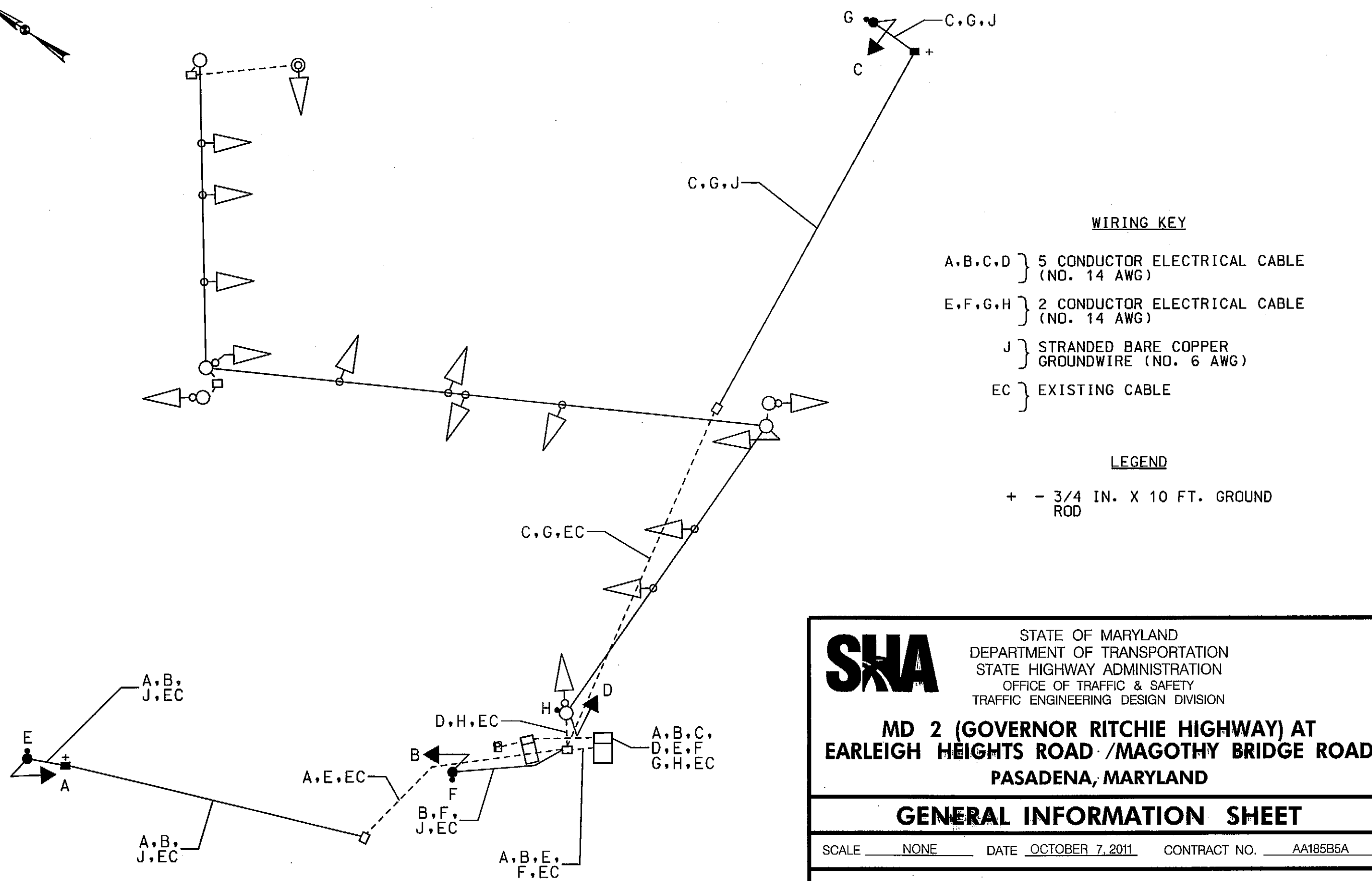
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

NONE.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
PHASE 1 + 5	←G	←G	R	R	G	←G	←G	R	R	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5, OR PHASE 2 + 6																						
PHASE 1 + 6	←G	←G	G	G	G	←R	←R	R	R	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
1 + 6 CHANGE	←Y	←Y	G	G	G	←R	←R	R	R	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
PHASE 2 + 5	←R	←R	R	R	R	←G	←G	G	G	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
2 + 5 CHANGE	←R	←R	R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
PHASE 2 + 6	←R	←R	G	G	G	←R	←R	G	G	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	W	W	DW	W
PED CLEARANCE	←R	←R	G	G	G	←R	←R	G	G	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	←R	←R	Y	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
PHASE 3	←R	←R	R	R	R	←R	←R	R	R	R	R	R	R	←G	←G	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
3 CHANGE	←R	←R	R	R	R	←R	←R	R	R	R	G	R	Y	Y	Y	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
PHASE 4	←R	←R	R	R	R	←R	←R	R	R	R	←G	←G	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
4 CHANGE	←R	←R	R	R	R	←R	←R	R	R	R	←G	←G	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
PHASE 4 ALT	←R	←R	R	R	R	←R	←R	R	R	R	←G	←G	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	W	W
PED CLEARANCE	←R	←R	R	R	R	←R	←R	R	R	R	←G	←G	R	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	←R	←R	R	R	R	←R	←R	R	R	R	Y	Y	Y	R	R	FL/R	FL/R	FL/Y	FL/Y	DW	DW	DW	DW
PRE-EMPTION	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	←G	←G	←G	FL/Y	FL/Y	R	R	DW	DW	DW	DW
CHANGE	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	Y	Y	Y	FL/R	FL/R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/Y	FL/Y	FL/Y	FL/←R	FL/←R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/Y	FL/Y	DARK	DARK	DARK	DARK



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 2 (GOVERNOR RITCHIE HIGHWAY) AT
EARLEIGH HEIGHTS ROAD /MAGOTHY BRIDGE ROAD
PASADENA, MARYLAND**

GENERAL INFORMATION SHEET

SCALE NONE DATE OCTOBER 7, 2011 CONTRACT NO. AA185B5A

DESIGNED BY NJM COUNTY ANNE ARUNDEL
DRAWN BY NJM LOGMILE 02000231.23
CHECKED BY BSH T.I.M.S. NO. L136
F.A.P. NO. N/A T.O.D. NO.

T.S. NO. 314KGI SQ-02 OF SQ-02 SHEET NO. 7 OF 7

PLOTTED: Tuesday, October 04, 2011 AT 12:01 PM
FILE: I:\2012 - TEDD\26 - ADA TOPA\DESIGN\Engineering\PlanSet\p83-N001_314K.dgn

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